

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: LUMARK

Report Number: P959281

Luminaire Tested: **NAV-SB1A-735-U-5NQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P959281  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB1A-735-U-5NQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 3500K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4819.6 lumens  
Efficiency: N/A  
Efficacy: 156.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G1

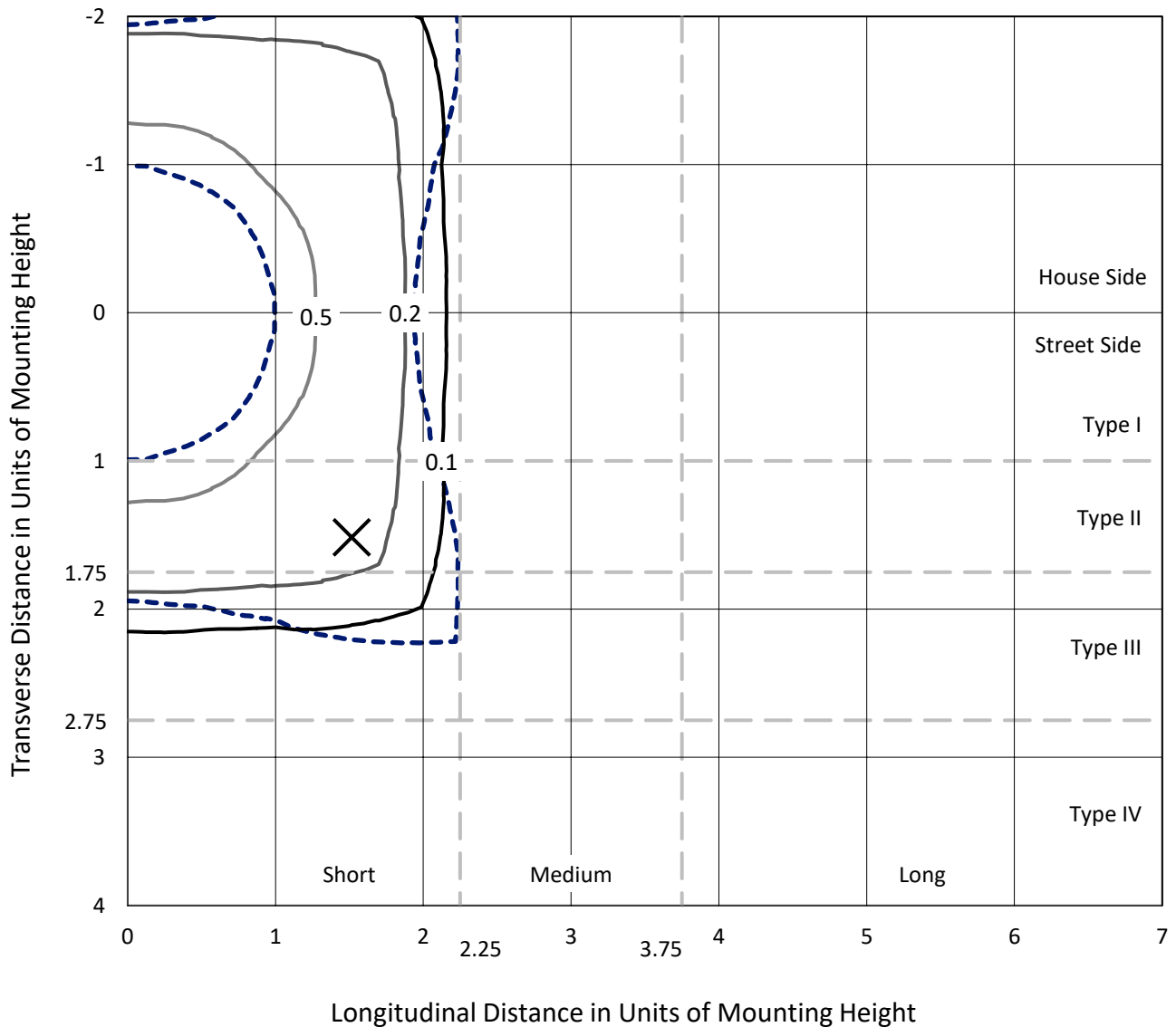
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

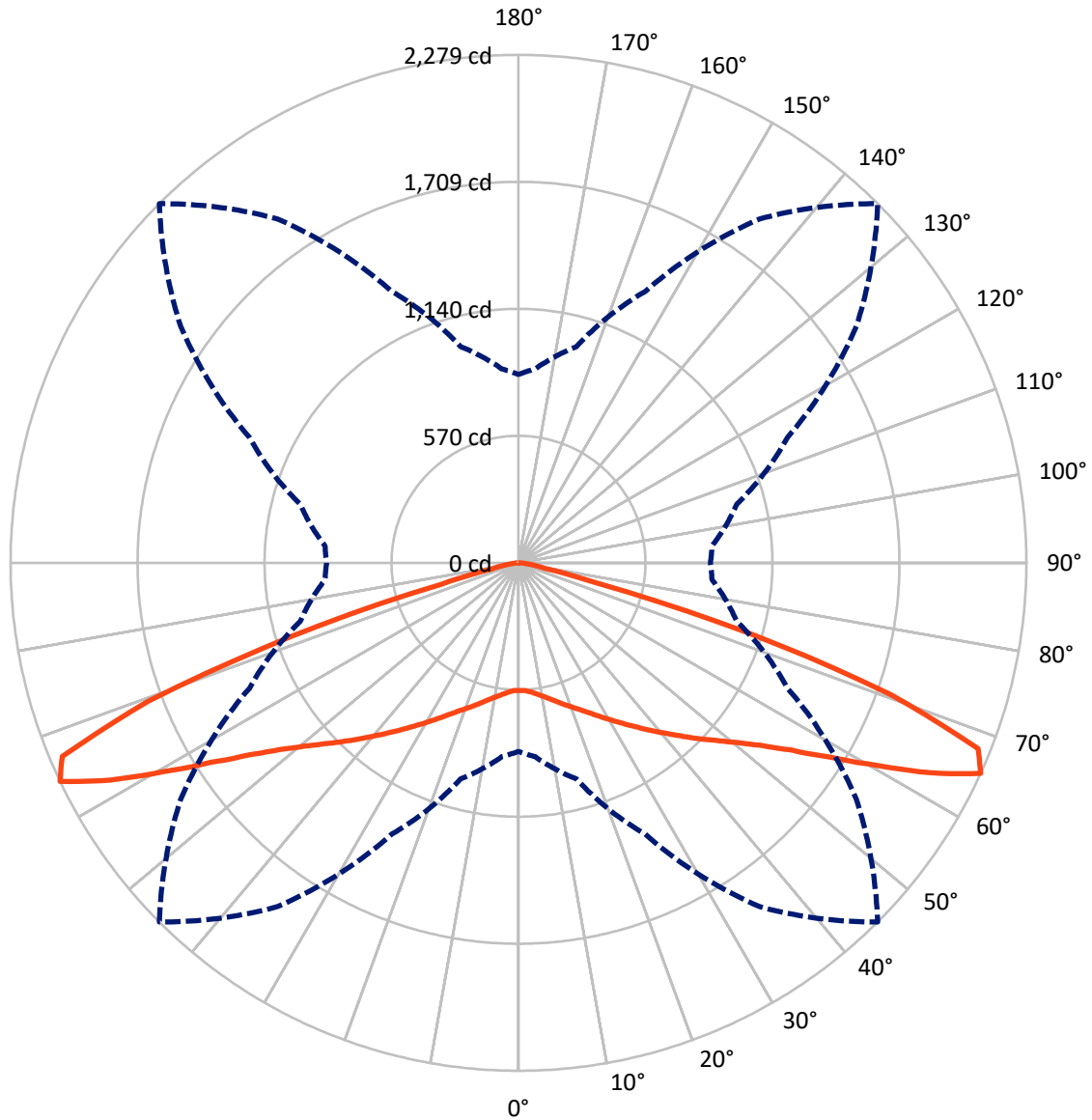
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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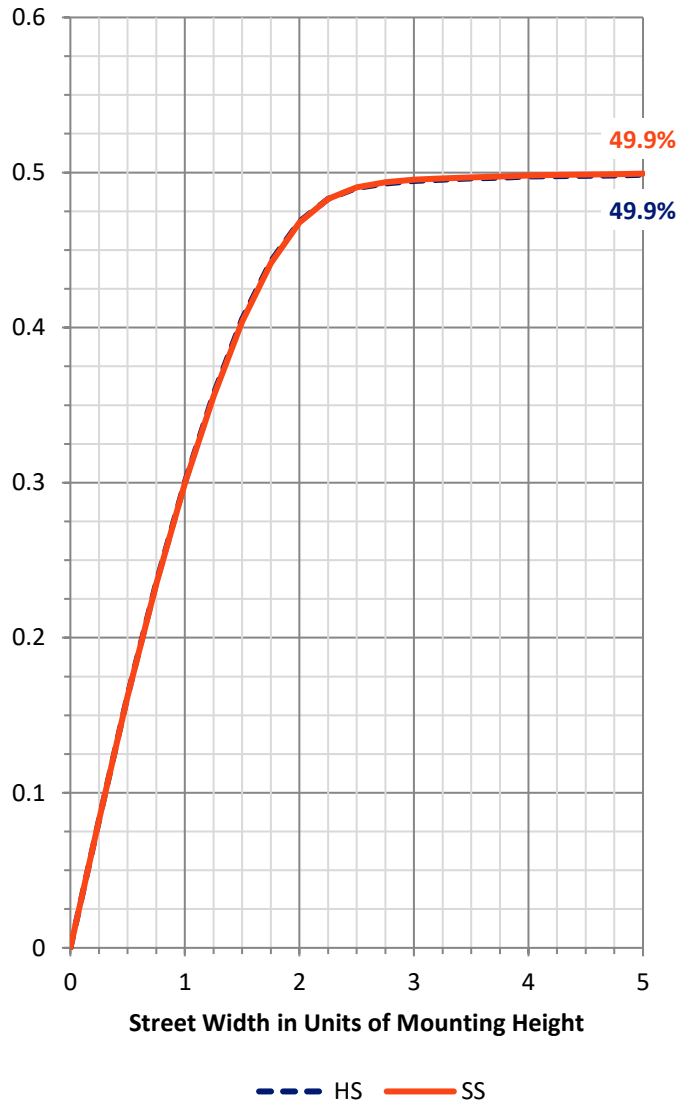
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2409.8	0.0	2409.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2409.8	0.0	2409.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4819.6	0.0	4819.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.6	1.2
10°-20°	184.7	3.8
20°-30°	348.8	7.2
30°-40°	571.1	11.8
40°-50°	885.5	18.4
50°-60°	1308.0	27.1
60°-70°	1245.1	25.8
70°-80°	200.9	4.2
80°-90°	18.9	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4819.6	100.0
0°-180°	4819.6	100.0

**Coefficient of Utilization**



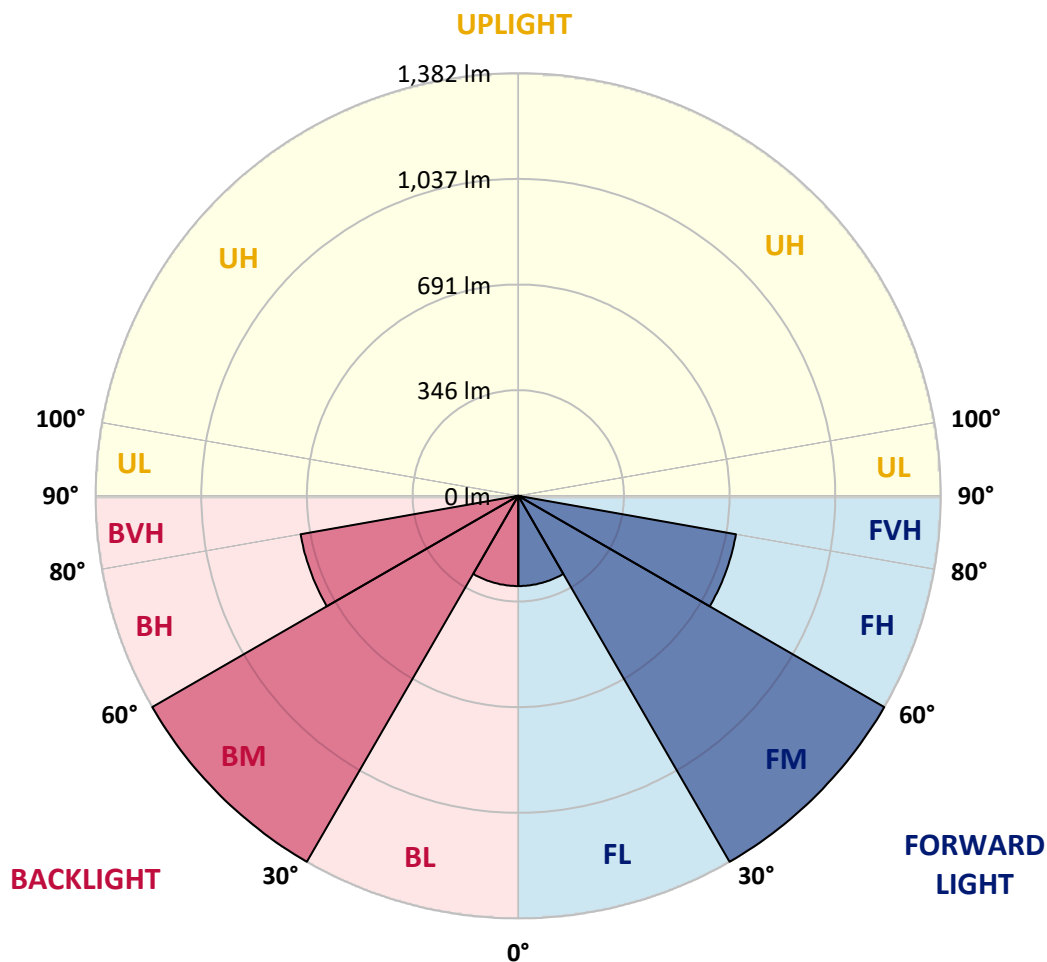
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	295.0	6.1			
FM (30°-60°)	1382.3	28.7			
FH (60°-80°)	723.0	15.0			G1/1800
FVH (80°-90°)	9.5	0.2			G0/10
BL (0°-30°)	295.0	6.1	B1/500		
BM (30°-60°)	1382.3	28.7	B2/2500		
BH (60°-80°)	723.0	15.0	B2/1000		G1/1800
BVH (80°-90°)	9.5	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	573.6	573.6	573.6	573.6	573.6	573.6	573.6	573.6	573.6	573.6	573.6
2.5°	577.5	575.5	577.0	575.7	574.8	573.8	574.3	575.9	576.8	577.0	577.0
5°	585.2	583.5	584.2	584.2	582.5	582.0	582.3	583.5	585.0	585.0	585.0
7.5°	597.8	596.0	597.8	596.8	595.3	594.8	594.6	595.6	597.8	597.8	597.1
10°	612.9	611.1	612.0	611.5	609.9	609.2	608.8	610.3	612.2	612.0	611.5
12.5°	629.7	627.5	628.7	627.3	626.8	626.1	626.1	625.8	627.0	626.1	626.5
15°	648.3	646.9	647.3	646.4	647.1	646.6	644.6	643.7	644.2	642.8	643.0
17.5°	670.3	666.9	668.6	668.1	668.1	669.1	665.9	664.7	665.7	664.3	665.4
20°	695.7	692.3	693.0	692.1	690.8	691.8	688.0	688.9	689.6	688.7	690.8
22.5°	723.5	719.1	718.9	719.3	716.7	717.0	714.3	716.7	718.2	715.6	718.2
25°	752.0	747.4	750.6	749.4	746.0	746.7	744.8	747.2	748.4	745.0	748.9
27.5°	782.3	779.1	782.0	782.7	778.6	781.6	778.6	780.8	782.0	776.9	780.8
30°	817.5	814.5	817.0	819.0	814.2	818.8	816.3	817.8	818.1	812.0	815.6
32.5°	856.0	851.2	857.9	859.0	853.6	859.2	856.0	857.9	859.2	851.0	856.5
35°	902.9	896.9	904.6	903.4	898.8	903.4	900.5	903.4	906.3	896.4	902.4
37.5°	953.5	947.2	955.4	953.2	948.8	952.0	950.3	952.2	956.8	946.2	952.7
40°	1009.1	1001.3	1012.5	1008.6	1004.5	1004.0	1005.0	1006.1	1012.2	1000.4	1004.2
42.5°	1068.6	1060.4	1077.1	1071.0	1065.2	1061.3	1064.5	1066.8	1072.7	1059.3	1066.4
45°	1136.5	1127.1	1148.8	1141.5	1132.4	1124.4	1129.4	1133.1	1141.5	1125.7	1133.9
47.5°	1211.4	1200.8	1224.1	1221.9	1206.8	1189.5	1201.1	1211.4	1217.8	1198.4	1205.0
50°	1284.7	1276.5	1307.0	1309.6	1291.3	1266.8	1283.1	1298.8	1300.4	1275.1	1278.2
52.5°	1353.4	1345.2	1389.5	1406.1	1389.7	1360.7	1377.8	1393.8	1381.0	1348.1	1349.1
55°	1408.4	1401.6	1457.9	1500.9	1506.4	1482.6	1492.7	1492.2	1450.2	1399.6	1401.3
57.5°	1421.6	1420.6	1491.7	1582.9	1640.9	1643.8	1623.8	1572.5	1481.8	1413.9	1409.5
60°	1361.2	1367.2	1464.9	1625.6	1780.4	1844.8	1758.0	1611.7	1445.8	1351.5	1340.4
62.5°	1180.3	1196.3	1313.9	1573.5	1893.2	2075.9	1865.6	1552.2	1297.8	1174.8	1167.5
65°	845.8	873.7	1003.8	1342.7	1883.0	2279.1	1850.1	1331.9	1013.4	871.5	861.1
67.5°	383.8	412.0	522.5	919.3	1636.8	2223.9	1632.9	929.1	548.7	413.5	407.4
70°	139.0	143.9	179.4	368.1	1046.1	1772.0	1090.8	370.7	190.8	153.3	151.4
72.5°	84.2	84.9	92.4	131.8	363.5	1075.8	378.9	136.1	94.3	83.6	85.1
75°	53.4	53.0	65.8	80.6	128.8	363.0	135.2	80.6	65.5	59.8	60.2
77.5°	38.4	39.7	47.2	60.2	81.3	123.1	79.8	57.5	47.2	38.6	39.5
80°	28.8	29.5	34.3	46.9	57.1	76.7	50.7	42.5	35.6	24.2	24.9
82.5°	20.8	20.8	22.4	34.1	34.8	41.3	27.6	30.0	23.5	17.1	17.1
85°	12.3	12.1	14.0	20.3	18.1	15.3	12.6	18.3	14.8	10.7	10.4
87.5°	4.3	4.6	4.3	5.8	4.8	4.1	3.9	5.1	4.1	3.6	3.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)